

519,680

Rec'd PCT/PTO 07 JAN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/005336 A2

(51) International Patent Classification⁷: C07K 14/47, A61K 38/17, A61P 25/28

(74) Agent: SERONO INTERNATIONAL S.A.; Intellectual Property, 12, chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

(21) International Application Number:
PCT/EP2003/050287

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 7 July 2003 (07.07.2003)

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02100787.7 8 July 2002 (08.07.2002) EP
02102834.5 19 December 2002 (19.12.2002) EP

(71) Applicant (*for all designated States except US*): APPLIED RESEARCH SYSTEMS ARS HOLDING N.V. [NL/NL]; Pietermaai 15, NL- Curaçao (NL).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): SOTO-JARA, Claudio [CL/CH]; 11, chemin des Cherpines, CH-1228 Plan-les-Ouates (CH). ADESSI, Céline [FR/FR]; Immeuble Bellingham No 12, La Croisée des Lys, F-68300 Saint-Louis (FR). HALAZY, Serge [BE/FR]; 20 chemin du Grand-Cras, F-74100 Vétraz-Monthoux (FR). RUECKLE, Thomas [DE/CH]; 9, chemin du Vieux Puits, CH-1228 Plan-les-Ouates (CH).

WO 2004/005336 A2

(54) Title: **β -SHEET BREAKING PEPTIDES**

(57) Abstract: Provided are peptides having β -sheet breaking ability, useful in the treatment and prevention of diseases such as Alzheimer's disease, Dementia pugilistica (including head trauma), Hereditary Cerebral Haemorrhage with amyloidosis of the Dutch type (HCHWA-D) and vascular dementia with amyloid angiopathy.